

REMARKS

Claims 1-18 are canceled.

Claims 19-36 are pending. Claims 19-25 are allowed. Claim 36 is a new dependent claim.

Claims 26-35 stand rejected over U.S. Patent 5,363,196 ("Cameron"). We respectively disagree.

We submit that Cameron does not teach or suggest "for each position, measuring a *direction* of the reflected beam," as recited in independent claim 26 (emphasis added.) To the contrary, Cameron describes measuring a relative optical path (e.g., 222, 224, and 226) for a reflected beam corresponding to each of three interferometers (e.g., interferometers 208, 210, and 212) on each of the X and Y mirror surfaces of the wafer stage (see, col. 4, lines 36-46.)

Moreover, Cameron recommends that these interferometers are "conventional heterodyne double doppler type interferometers or homodyne fringe counting interferometers" (see, col. 4, lines 46-49), which means that the beam reflects from the mirror surface twice before being measured. As a result, the *direction* of the measured reflected beam *does not change* even when the beam contacts the mirror surface at non-normal incidence. Therefore, there is no reason for Cameron to measure the direction of the reflected beam, as recited in claim 26.

The rejected claims that remain depend from independent claim 26, and distinguish Cameron for at least the same reasons.

Accordingly, we ask that the application be allowed.

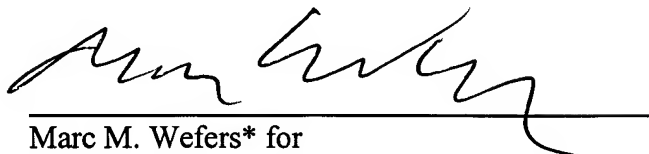
Applicant : Henry A. Hill  
Serial No. : 10/603,116  
Filed : June 24, 2003  
Page : 6 of 6

Attorney's Docket No.: 09712-251003 / Z-462

Please apply any charges or make any credits to deposit account 06-1050.

Respectfully submitted,

Date: 10/26/04



Marc M. Wefers\* for  
David L. Feigenbaum  
Reg. No. 30,378

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

**\*See attached document certifying that Marc M. Wefers has limited recognition to practice before the U.S. Patent and Trademark Office under 37 C.F.R. § 10.9(b).**